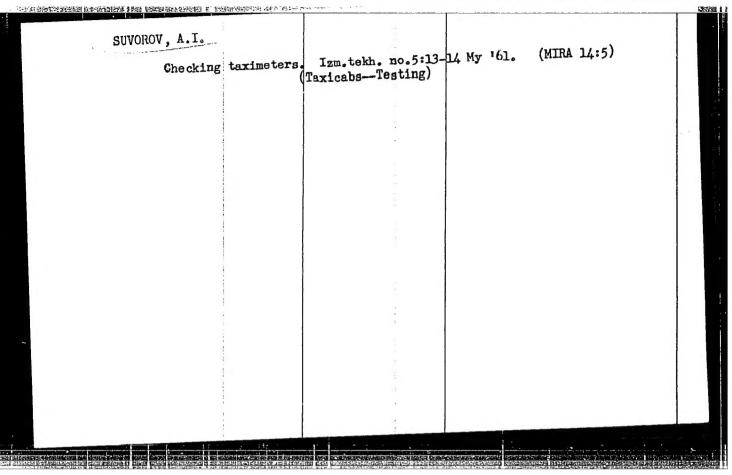
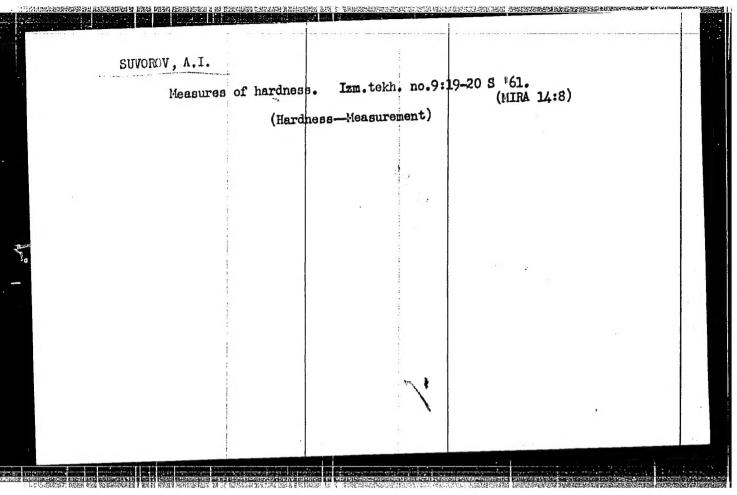
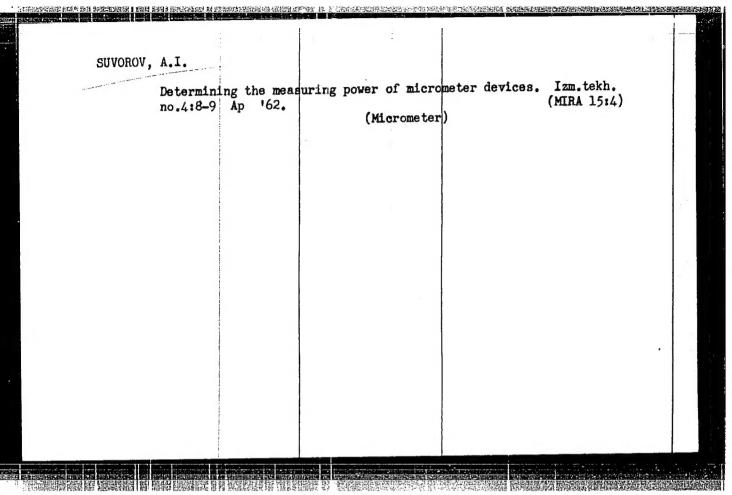
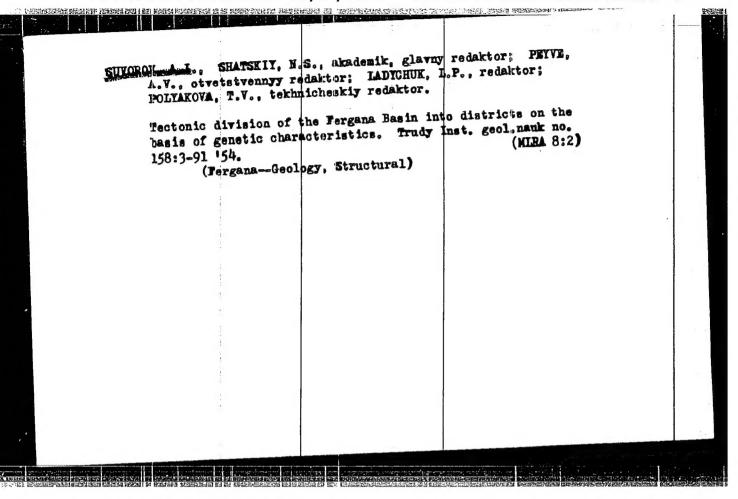
SOV/115-59-10-23/29 About The Organization and Activities of Testing Laboratories in Plants task of the technical section and of the technological staff of the plants. The development of new equipment is also primarily the task of these sections and the laboratories can only help in the fulfillment of this task in which case, however, the laboratory staff must be increased. The author also finds, that a division of plant laboratories into 3 categories could greatly improve the quality of laboratory work. Those placed in the lowest categories will strive to improve their work to a degree which will permit their transfer into the next, superior category. The lack of incentives usually results in the lack of interest for technical progress. The author further describes the measures taken by the Upravleniye mashinostroitel noy i khimicheskoy promyshlennosti Ivanovskogo sovnarkhoza (Directorate of the Machine Building and Chemical Industry of the Ivanovo Sovnarkhoz) to improve and clearly de-Card 2/3 fine the duties of the measuring laboratory. In the



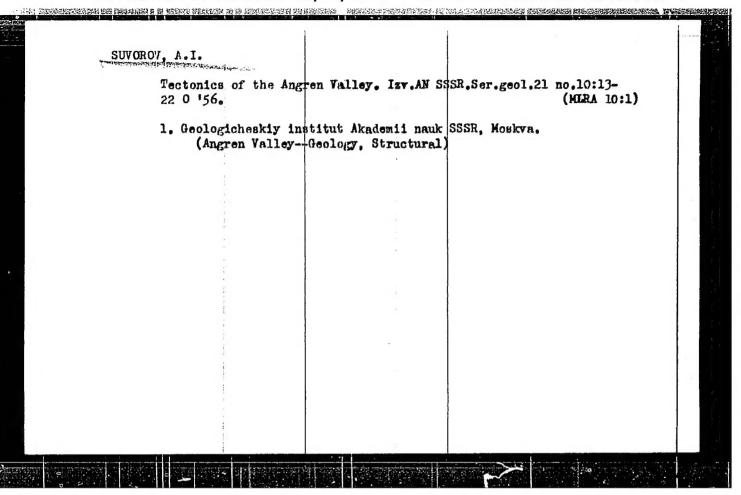
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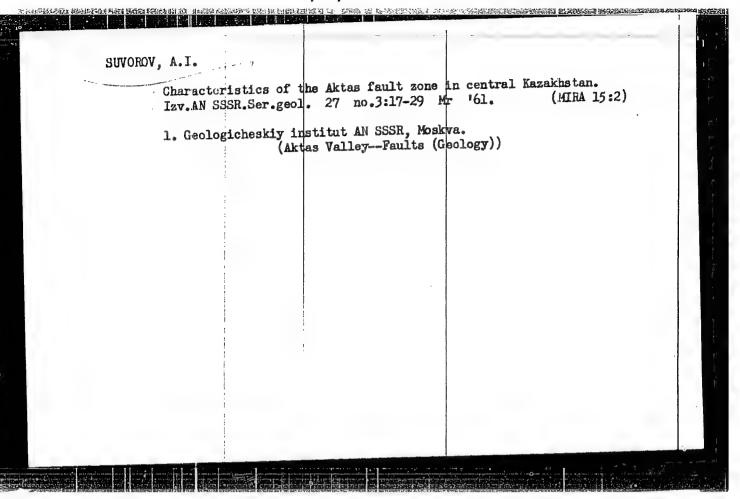
6		열심하다 그리아 그리는 사람들은 사람들이 얼마를 하는데 사람들이 얼마나 없었다.
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luthors	1	Suvorov, A. I.
Title	1	Some signs of subterranean fractures
•		
Periodical	1	Izv. AN SSSR. Ser geql. 1, 65-79, Jan-Feb 1955
lbstract	1	The article gives a description of fractures of the subterranean Faleozoic foundation of some regions in Central Asia on the basis of data on the atructure of the Mesocenozoic and Paleozoic structural levels in the gone of their visible juxtanosition. The runtures of the Paleozoic
Abstract	•	The article gives a description of fractures of the subterranean Faleozoic foundation of some regions in Central Asia on the basis of data on the structure of the Mesocenozoic and Paleozoic structural levels in the zone of their visible juxtaposition. The ruptures of the Paleozoic foundation are exposed in Mesocenozoic deposits in the form of different deformations, both ruptured and folder. The latter may therefore, be
lbstract	•	The article gives a description of fractures of the subterranean Faleozoic foundation of some regions in Central Asia on the basis of data on the atructure of the Mesocenozoic and Paleozoic structural levels in the gone of their visible juxtanosition. The runtures of the Paleozoic
	•	The article gives a description of fractures of the subterranean Faleozoic foundation of some regions in Central Asia on the basis of data on the structure of the Mesocenozoic and Paleozoic structural levels in the zone of their visible juxtaposition. The ruptures of the Paleozoic foundation are exposed in Mesocenozoic deposits in the form of different deformations, both ruptured and folder. The latter may therefore, be considered in a wy as surface indications of fractures. Ten Soviet
nstitution	:	The article gives a description of fractures of the subterranean Faleozoic foundation of some regions in Central Asia on the basis of data on the structure of the Mesocenozoic and Paleozoic structural levels in the zone of their visible juxtaposition. The ruptures of the Paleozoic foundation are exposed in Mesocenozoic deposits in the form of different deformations, both ruptured and folder. The latter may therefore, be considered in a wy as surface indications of fractures. Ten Soviet
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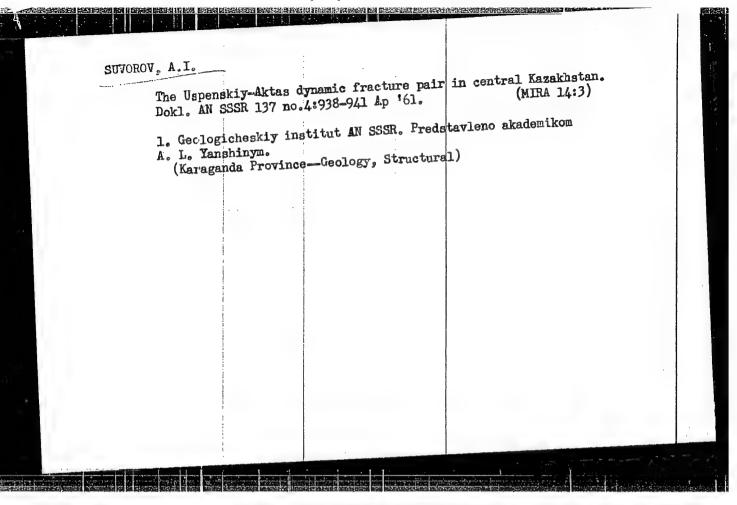


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AUTHOR:	Suvorov, A. I.	turner of the Northern
TITLE:	Meso-Cenozoic Folded-Block Structurakh Severnogo Tyan' -	Shanya).
PERIODICAL:	Izvestiya Akademii nauk SSSR,	Seriya geologicheskaya, 1999,
ABSTRACT:	As a result of a detailed study of the morthern Tien-Shan, the whole specific folded-block geosynch began in the Upper-Paleozoic of the more Congress. The	region is considered as a linal province. Its formation and continued all through folded-block structures of the d in a series of morphologic raphic texture and development result of differentiated arts of the earth's crust, noe was in each separate case
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	recorded the first angular systems of the contract Contra	

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	Otd.geol.	and terminology, (Geology,	ogy of fold-bloom, II-Ag 159. Structural)	ock structure	8. Biul, MOIP. (MIRA 13:8)	
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A.L. Yenshiny	n.	N SSSR. Predstav aults (Geology)) Asia—Faults (Geo		•

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SUVOROV, A.I.; SAMYGIN, S.G. Tectonic convergence of facies through powerful thrusts. Izv. AN SSSR. Ser. geol. 30 no.5:46-64 My '65. (MIRA 18:6) 1. Geologicheskiy institut AN SSSR, Moskva. 66910 28-11-1/5 CIA-RDP86-00513R001654020007-6 03/14/2001 Uspekhi khimii, 1959, Vol 28, Mr 1, pp 1267-1309 (USSR) The chemistry of organic titanium compounds has in the the the of organic titanium compounds has in the the the the the last 10-15 years. The symmetrize and systems titanium developed made to symmetrize containing titanium considerably developed made to symmetrize containing transfer the symmetrize and systems the symmetrize and systems the symmetrize containing transfer the symmetrize and systems the symmetrize containing the symmetrize and systems the systems that symmetrize and systems the symmetriz The chemistry of organic titanium the last 10-15 years. In the considerably developed in the last 10-15 years. 5.3700(3) paper, an attempt was made to summarize and systematize the titenium titenium are dealt with more groups:

paper, an attempt this field. Substances containing thorough:

are dealt with into groups:

are dealt with into Organic Titanium WIHORS . All organic titanium compounds may be divided into 3 groups:

1) compounds containing titanium the bis-cyclopentadienyl

titanium compounds), including the bis-cyclopentalienyl titanium compounds), including the bis-cyclopentadienyl redical compounds of the bis-cyclopentadienyl redical the bis-cyclopentadienyl redical compounds of the bis-cyclopental compounds o 1) Compounds containing titanium-carbon bonds (real organical transium compounds), including the bis-cyclopentadienyl titanium compounds in which the organical transium of titanium; 2) compounds in which the compounds of titanium compounds of titanium; 2) compounds in which the organic red of such as oxygen,

atom by elements such as in winted the compounds of titanium anides of acids with organic titanium compounds with organic anhydrides of inorganic titanium compounds of inorganium co TITLE: PERIODICAL: ABSTRACT: anhydrides of titanic and tanium compounds with organic titanium compounds of inorganic titanium mainly compounds of in the present paper, mainly compounds in the present paper. molecules. In the present paper, mainly compounds of the second group, and the discuss of are dealt with, are not discuss of are dealt with, are not discuss of largest, the second group; ation compounds are properties of largest, briefly. Coordination, physical and chemical properties of lethods of preparation, physical and chemical properties. compounds of inorganic titanium compounds with organic the late of the natural compounds of the late of the natural paper, mainly compounds the late of the natural paper, are dealt with, and the late of the natural paper, are dealt with, and the late of the natural paper, are dealt with, and the late of the natural paper, are dealt with, and the late of the natural paper, are dealt with, and the late of the natural paper, are dealt with organic the natural paper, and the late of the natural paper, are dealt with organic the natural paper, and the late of the natural paper, are dealt with organic the natural paper. mentioned briefly. Coordination compounds are not discussed. of physical and chemical properties of physical and chemical properties of liethods of preparation, Card 1/5

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Organic Titanium Compounds

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each single class of compounds are containing all known compounds and their constants are presented. According to the authors, the table of give most reliable data. Further, all sources are indicated in which the compounds in cuestion are described and their constants are given, even if the latter are not in agreement with the values in the tables. Compounds described in patents containing no constants have not been enclosed in the tables. Compounds with the Ti-C bond have been thoroughly discussed in the survey made by Cotton (Ref 8) and published in 1955. Further papers in this field are references 9-29. Bis-cyclopentadienyl derivatives of titanium references 9-29. Bis-cyclopentadienyl derivatives of titanium telegraphs to the class of compounds of the ferrozene type belong to the compounds of the Ti(ER)_NX_{4-n}

the derivatives of the ortho-titanic acid; R = organic radical, E = 0, N, S; X = halogen, n = 1, 2, 3, 4. Thus, the derivatives of ortho-titanic acid include halogen compounds, orthoester, among them mixed esters with different R, and orthoester, among them mixed esters with different R, and ethers of polyatomic alcohols; acyl derivatives; amides of ortho-titanic acid, as well as derivatives of ortho-titanic acid, and trialkyl(aryl)-silanes (Refs 41-186). Meta-titanic

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Organic Titanium Compounds-

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acid esters or dialkoxy-titanium oxides (RO), TiO are substances little known (Refs 113, 123, 154, 187). Esters of the titanous acid or trialkoxy-titanium compounds Ti(OR) are obtained on reduction of alkyl-ortho-titanium compounds with metallic sodium (Ref 79) or potassium (Ref 154) in alcohol. From among polymeric organic titanium compounds, the polytitanium oxane compounds are best known which contain an inorganic chain of titanium and oxygen atoms surrounded by organic groups. So far, only a few hexaalkoxy-dititanium oxanes (Refs 187, 188) and octaalkoxy-trititanium oxanes (Refs 62, 187) have been isolated. Further, polyorganosiloxanetitanium oxanes are known which are polytitanium oxanes (I), and the chains of which are surrounded by trialkyl(aryl)siloxy groups; and also polyorganotitanium siloxanes (II) containing an inorganic chain of titanium, silicon and oxygen atoms surrounded by organic groups. Few data are available on polymers obtained by polymerization or copolymerization of some unsaturated organic titanium compounds (Refs 62, 76, 77, 88, 94, 95, 92, 118-120, 123, 113, 136, 137, 141-143, 151, 169, 171, 187-214). Organic titanium compounds

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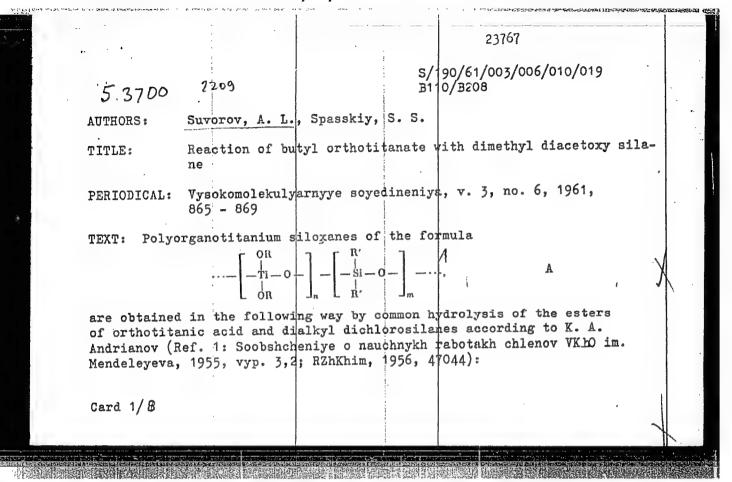
Organic Titani				SOV/74-28-11-1/5	
ASSOCIATION:	/ khimii, labora	itoriya vy	sokomolekulya	h AS USSR). Institut rnykh soyedineniy igh-molecular Compounds))
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CIA-RDP86-00513R001654020007-6

SOV/79-29-3-20/61 On the Characteristics of the a, \beta-Unsaturated Ketones. VII α, β -unsaturated ketones and prove to be more sensitive to very weak hydrolysis reagents. Besides, the behavior of the β -ketols in the hydrolysis differs from that of the α , β -unsaturated ketones by the fact that a change of the NaOH-concentration exerts a slight influence upon the cleavage intensity of the β -ketols whereas the hydrolytic cleavage of the α , β -unsaturated ketones is considerably influenced. The rate of hydrolysis of the aliphatic aromatic ketones investigated increases significantly when the NaOH concentration is increased from 0.01 to 0.1 n. 8 β-ket ols hitherto unknown were synthesized and described. It was determined how far the hydrolytic cleavage of the β -ketols and at the same time that of the α , β -unsaturated ketones develops and it was proved that the latter separate but little HBr on bromination. There are 2 tables and 4 references, 2 of which are Soviet. Ural'skiy gosudarstvennyy universitet (Ural State University) ASSOCIATION: February 18, 1958 SUBMITTED: Card 2/2

AUTHORS: Suvorov, A. L. Spasskiy, S. S. Copolymerization of Unsaturated Acyl Derivatives of Eutyl Polytianate With Styrene PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 4, pp 805-807 (USSR) ABSTRACT: Titanium-containing polymers, resulting from polymerization of compounds or from copolymerization of the latter with vinyl monomers have not yet been tion of the latter with vinyl monomers have not yet been been thoroughly investigated. As may be seen from a short survey of the save from a short survey of the sa				•
PERIODICAL: Copolymerization of Unsaturated Acyl Derivatives Polytitanate With Styrene PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 4, pp 805-807 (USSR) Titanium-containing polymers, resulting from polymerization of compounds or from copolymerization of the latter with vinyl monomers have not yet been tion of the latter with vinyl monomers have not yet been thoroughly investigated. As may be seen from a short survey of thoroughly investigated. As may be seen from a short survey of explain the possibility of titanium-containing polymers of titanium-containing polymers of titanium-containing polymers. The authors attempted to unsaturated with vinyl monomers. The authors attempted to explain the possibility of such the case with which the alkoxy groups in acyl they made use polytitanates can be replaced by acyl remainders. They obtained an unsaturated polycondensation product of type (I). By heating an alkyl polytitanate with a fatty acid, preferably one having a chain, the acyl groups were substituted for the alkyl group.	5(3)		Spasskiv. S. S.	sov/20-127-4-21/60
Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 4, pp 805-807 (USSR) Titanium-containing polymers, resulting from polymerization of unsaturated titanium-containing compounds or from copolymerization of the latter with vinyl monomers have not yet been tion of the latter with vinyl monomers have not yet been thoroughly investigated. As may be seen from a short survey of thoroughly investigated. As may be seen from a short survey of thoroughly investigated. As may be seen from a short survey of thoroughly investigated. As may be seen from a short survey of titanium-containing polymers of titanium-containing polymers of titanium-containing polymers of titanium-containing polymers. The authors attempted to unsaturated — with vinyl monomers. The authors attempted to a synthesis. For this purpose, a synthesis. They obtained polytitanates can be replaced by acyl remainders. They obtained an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid, preferably one having an alkyl polytitanate with a fatty acid.	AUTHORS:	Suvorov, A. L.	Shanou-6 A	Demigratives of Butyl
ABSTRACT: Titanium-containing polymers, resulting from polymerization of unsaturated titanium-containing compounds or from copolymerization of the latter with vinyl monomers have not yet been nomers have not yet been thoroughly investigated. As may publications (Refs 1-4), there are no data available on the publications (copolymerization of titanium-containing polymers synthesis and type (I)(Scheme) - of which a portion of organic groups is type (I)(Scheme) - of which a portion of organic groups is type (I)(Scheme) with vinyl monomers. The authors attempted to unsaturated with vinyl monomers a synthesis. For this purpose, a synthesis. They obtained polytitanates can be replaced by acyl remainders. They obtained product of type (I). By heating an unsaturated polycondensation product of type (I). By heating an alkyl polytitanate with a fatty acid, preferably one having a large chain, the acyl groups were substituted for the alkyl groups.	TITLE:	Copolymerization Polytitanate Wi	n of Unsaturated A th Styrene	ey1 perivative
unsaturated to the latter with vinyl monomers have now for thoroughly investigated. As may be seen from a short survey of thoroughly investigated. As may be seen from a short survey of thoroughly investigated. As may be seen from a short survey of thoroughly investigated. As may be seen from a short survey of the read to the publications (Refs 1-4), there are no data available on the publications (Refs 1-4), there are no data available on the publications (Refs 1-4), there are no data available on the publications of titanium-containing polymers as ynthesis and or groups is the authors attempted to unsaturated — with vinyl monomers. The authors attempted to unsaturated possibility of such a synthesis. For this purpose, explain the possibility of such a synthesis. For this purpose, they made use of the case with which the alkoxy groups in acyl they made use of the case with which the alkoxy groups in acyl and unsaturated polycondensation product of type (I). By heating an alkyl polytitanate with a fatty acid, preferably one having a large chain, the acyl groups were substituted for the alkyl groups.	PERIODICAL:	(USSR)		a marian of
Tana chain. the doj- o	ABSTRACT:	tion of the lathoroughly investigations (synthesis and type (I)(Scherungaturated explain the pathey made use polytitanates	tter with vinyl more stigated. As may Refs 1-4), there a copolymerization one) - of which a powith vinyl monomer assibility of such of the case with we can be replaced by an always and the case with the	nomers have not journed homers have how seen from a short survey of re no data available on the fittanium-containing polymers rion of organic groups is s. The authors attempted to a synthesis. For this purpose, hich the alkoxy groups in acylhich the alkoxy groups in acyl acyl remainders. They obtained product of type (I). By heating a
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		;		



Reaction of butyl $nTi(OR)_4 + mR_2'S'Cl_5 + (n'+m)H_5O \rightarrow \dots \begin{bmatrix} OR \\ -Ti-O- \\ OR \end{bmatrix}_n \begin{bmatrix} R' \\ -Si-O- \\ R' \end{bmatrix}_{-m} $ (i) 1 The authors tried to synthesize these compounds by heterofunctional condensation of butyl orthotitanate and dimethyl diacetoxy silane according to $(n+1)Ti(OC_4H_9)_4 + n(CH_9)_5Si(OCOCH_9)_4 \rightarrow \dots \\ (CH_9 OC_4H_9)_5Ti-OC_4H_9 + n(CH_9)_5Si(OCOCH_9)_4 \rightarrow \dots \\ (CH_9 OC_4H_9)_6 + n(CH_9)_6 + n(CH_9)_$	9 d 9 d 9 d	23767
The authors tried to synthesize these compounds by heterofunctional condensation of butyl orthotitanate and dimethyl diacetoxy silane according to $ \frac{(n+1)\operatorname{Ti}\left(\mathrm{OC}_{4}H_{9}\right)_{4}+n\left(\mathrm{CH}_{3}\right)_{2}\operatorname{Si}\left(\mathrm{OCOCH}_{3}\right)_{1}}{\mathrm{CH}_{3}} - \frac{\mathrm{CH}_{3}\left(\mathrm{OC}_{4}H_{9}\right)_{4}+n\left(\mathrm{CH}_{3}\right)_{2}\operatorname{Si}\left(\mathrm{OCOCH}_{3}\right)_{1}}{\mathrm{CH}_{3}} - \frac{\mathrm{CC}_{4}H_{9}}{\mathrm{CC}_{4}H_{9}} - \frac{\mathrm{CC}_{4}H_{9}}{\mathrm{CC}_{4}H_{9}} + \frac{\mathrm{CC}_{4}H_{9}}{\mathrm{COOC}_{1}H_{9}}. $ (2a) 2a An exothermic reaction was observed already during mixing at room temperature. During heating and distillation dimethyl dibutoxy silane (CH ₃) ₂		S/190/61/003/006/010/019 Reaction of butyl
densation of butyl orthotitanate and dimethyl distribution dimethyl distribution of butyl orthotitanate and dimethyl distribution of butyl orthotitanate and dimethyl distribution dimethyl distribution of butyl orthotitanate and distribution dimethyl distributions of butyl orthotic dimethyl distributions of butyl orthotic dimethyl distributions of butyl distributio		$nTi(OR)_{4} + mR'_{2}SiCl_{2} + (n' + m)H_{2}O \rightarrow \\ \begin{bmatrix} OR \\ -Ti - O - \end{bmatrix}_{n} - \begin{bmatrix} R' \\ -Si - O - \end{bmatrix}_{m} $ (1)
$ - (C_1H_9O)_3Ti - \begin{pmatrix} CH_3 & OC_4H_9 \\ O-Si-O-Ti- \\ CH_3 & OC_4H_9 \end{pmatrix}_n - OC_4H_9 + 2nCH_9COOC_1H_9. $ (2a) 2a An exothermic reaction was observed already during mixing at room temperature. During heating and distillation dimethyl dibutoxy silane $(CH_3)_2$	9	densation of butyl orthotitanate and dimethyl discosory
ture. During heating and distillation dimensifications 3,2	,	$ \rightarrow (C_1H_9O)_3Ti - \begin{pmatrix} CH_3 & OC_4H_9 \\ O-Si-O-Ti- \\ CH_3 & OC_4H_9 \end{pmatrix}_n - OC_4H_9 + 2nCH_9COOC_1H_9. $ (2a)
		An exothermic reaction was observed already during mixing at room temperature. During heating and distillation dimethyl dibutoxy silane (CH3)2
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Reaction of butyl	S,	23767 190/61/003/006/010/019 10/B208	
$Si(OC_4H_9)_2$ distils over in a corresponds to formula 2. is distilled in a ratio 1.1, going to completion. At rat $(C_4H_9O)_{2n+2}Ti_nO_{n-1}$ and not p tion. Alkyl orthototanates nium acetates according to T	When a mixture Ti(C it handens and pre los of 2:1 and 4:1 blytitanium siloxan form with acetic ac	c ₄ H ₉) ₄ /(cH ₃) ₂ Si(OCOCH ₃) ₂ vents the reaction from butyl polytitanium oxane s is left after distilla- id anhydride alkoxy tita-	
These react when heated erco \rightarrow (RO) _{2n+2} Ti _n O _{n+1} +(n+1)CH ₃ C are silicon anhydrides of call anhydride reaction is theref according to: 2Ti(OC ₄ H ₉) ₄ +(+(CH ₃) ₂ Si(OC ₄ H ₉) ₂ (5). It 1 functional condensation a co	rding to (n-1)(RO), not boxylic acids have the assumed to take the last cooch; 2	T:0COCH ₃ -Ti(OR) ₄	A
+ CH ₂ COCC ₄ H ₉ follows. Card 3/			

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Reaction of butyl	S/ B!	190/61/003/006/010/019 10/8208
If the molar ratio Ti(OC ₄ H ₉) and is between 4st and 2st, mass gives rise to the follow +(n-1)(CH ₃) ₂ Si(OCOCH ₃) ₂	/(CH ₃) ₂ Si(OCOCH ₃) ₂ be free butyl orthing reactions 2nT C ₄ H _Q O) _{2n+2} Ti _n O _{n+1} ing the reaction w of the end product K. A. Andriance that in this case a the butexy groups, the trimethyl siloxy g (C.069 mole) Ticl ing at 167-168 C/4m from dimethyl dich 161 C; n _D =1.401) r	exceeds the value 2:1 otitanate in the reaction $(OC_4H_9)_4$ $(n-!)(CH_3)_2Si(OC_4H_9)_2$ th different molar ratios depends on the ratios of and T. N. Ganina (Zh.obshch. cetoxy groups are sub- forming cyclic titanium titanium to be expected. and butyl alcohol in m, and 5.2g (0.029 mole) lorosilane and acetic eacted in a ratio of

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Reaction of butyl	
and the mass became nomegone	bus. During distillation on a metal bath at
and along a liquid beiling a	- 125 127 C distril ed over. On distribution
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89.9.00/20mm distilled wer.	Anter distillation of colarile tracrious
at 190.200°C and 5.6mm a not formula 10,800 and 5.6mm a not	enter transparent drange liquid with the entering the butyl acetate boiled at
10. 10. 20. a 20. b a 13. a 3. 1	the Tre dimetry, a rotory solun-
(CH.)_S. (CC. H.) follow of "	a restage had a to line to of of 75 blas
*Amme Har and the tobe 188 1 6 5	th other pressure of a .4050. 19.58
(0.057 mode) party orth to the	TATE WALE DIFFER WE TO DAME THE DESCRIPTION OF AND PROPERTY.
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distilled and a viscous of left $\left[\left(C_A H_0 S \right) \right] T \times O \left[\left(S - S \right) \right]$	and he begins and along velous calor was an interest that the unit of an analogous
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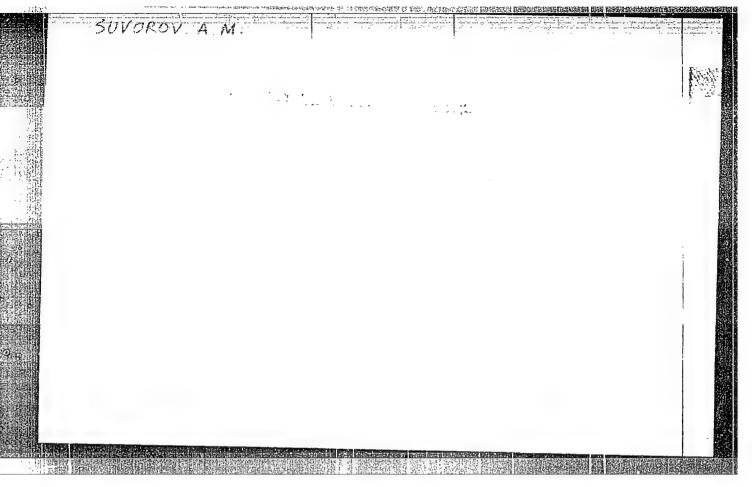
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Interaction of alkylorthotitanates with dibasic acid anhydrices. Dokl. AN SSSR 157 nd .3:639-642 J1 64. (MIRA 17:7)
l. Institut khimii Ural'skogo filiala AN SSSR. Predstavleno akademikom A.N. Nesmeyanovym.

PC-L/PT-4 SWI(E)/EPP(c)/SWP(j)/P RH: R/3286/65/000/009/0071/0071 AP5015312 ACCESSION NR: 678.766.7 Suvorov, A. L.; Spasskiy, S. S. AUTHOR: TITLE: Preparation of organotitanium polymers or oligomers with unsaturated acyl groups. Class 39, No. 173686 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 71 TOPIC TAGS: organotitanium polymer, organotitanium oligomer, unsaturated polymer ABSTRACT: An Author Certificate has been issued for a preparative method for organotitanium polymers or oligomers with unsaturated scyl groups. The method involves treatment of organotitanium polymers or oligomers containing alkoxy substitlents at the Ti atom with anhydrides of unsaturated mono- or di-basic acids. ASSOCIATION: none SUB CODE: Oc, GC RNCL: SUBMITTED: 13Mar64 ATD PRESS: 4029 000 OTHER: NO REF SOY: 000 Cord 1/1

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ECONTESTED IN TO THE STEED STE וואר אות על אול א MILITSYN, Konstantin Nikitich, kandidat tekhnicheskikh nauk: LOVCHIKOV. Basiliy Semenovich, kandidat tkehnicheskikh nauk; SUVOROV Artur Mikhaylovich, inzhener; OSOKIN, N.Ye., kandidat tekhnicheskikh nauk, retsenzent; PAVLOTSKIY, P.G., inzhener, retsenzent; ARONSHTEYN, N.A., inzhener, retsenzent; NOVIKOV, N.F., inzhener, retsenzent; RZHZNIKOV, V.S., redaktor; ARKHANGEL'SKAYA, M.S., redaktor izdatel'stva; BEKKER, O.G., tekhnicheskiy redaktor [Smelting and founding of nonferrous metals and alloys] Playka i lit'e tavetnykh metallov i splavov. Pod mauchnoi red. K.N.Militsyna. Moskva. Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956, 662 p. (MIRA 10:2) 1. Kol'chuginskiy tekhnikum po obrabotke tsvetnykh metallov (for Osokin, Pavlotskiy, Aronshteyn, Novikov) (Founding) (Smelting) (Nonferrous metals--Metallurgy)



小马上的**经验的 化过程的现在分配规则 型的保护的现在**或是实现的现在分词 网络拉克拉尔沙维拉希拉拉拉 是一点,这些表现是 SOV/128-59-3-7/31 18(5) Suvorov, A.M., Engineer AUTHOR: Casting of Shapes from Silicon TITLE: PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 3, pp 14-16 (USSR) As the resistance to corrosion of special steel decreases definitely at operating temperatures of 100° to 150° Celsius, the employment of crystallized silicon, which is able to sustain temperatures from 500° to ABSTRACT: 600°C., is highly interesting. Until very recently it had been thought unfeasible to produce shapes from crystallized silicon, explanatory by the specific properties of the latter. First it was necessary to clarify the principle question, how to cast shapes from silicon and to explore the necessary technological processes. For the experiments the silicon types KpO (not less than 99% silicon) and Kpl (not less than 98% silicon), both made at hte plant for ferro-alloys at Chelyabinsk, were used. For melting the silicon a high-frequency induction heated melting pan of graphite or graphite grog is mostly suitable. Previously the silicon Card 1/3

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is crushed to particles of 10 to 15 mm in diameter, and the melting pot is pre-heated to 800° to 1,000° C. Pouring into the molds is done at 1.550° to 1.600° C, according to the difference in shape of the casting. When pouring in normal atmosphere already at 1,000° C silicon anhydride (SiO₂) is formed at the surface of the charge, which is hard to remove and which forms non-metallic crystals in the structure of the casting. Therefore pouring in an atmosphere of argon gas (Ar) is the best method. A table lists the experiments made with various work pieces, like pipes, cranes, etc. The molds made from plaster of Paris, from gritty free-stone, and from graphite, etc. showed all negative results. Best results were achieved when using ceramic molds. With different mixtures 22 tests had been made. But ceramic molds can only be used for shapes with a low weight. Graphite molds showed good results too, but they were of the shapes. Castings from silicon can not be ground by means of a normal machine tool. Most suitable for

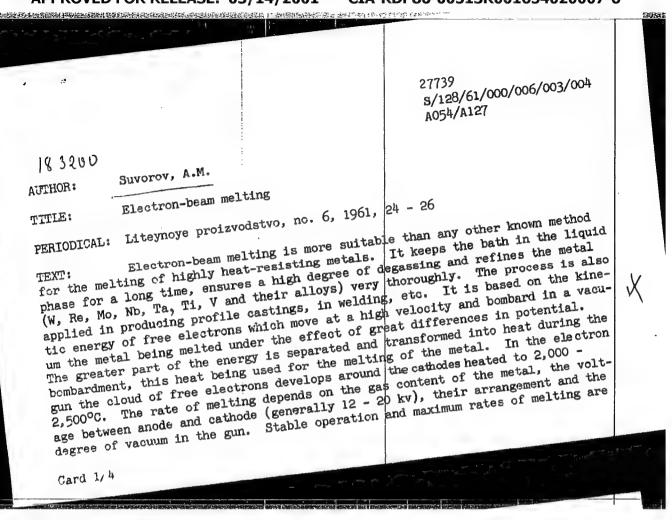
Casting of Shapes from Silicon

machining is the ultra sonic process. Likewise the cut demonstrating the micro-structure of the silicon casting on the photo figure 3 has been made by using the ultrasonic method. These experiments have been made during 1°56 to 1958 at the Institute of Non-Ferrous Metals and Gold iment M. I. Kallnin, Chair of Foundry Production, Mosdow. There are 1 table, 2 diagrams, 1 photograph and 1 micro-photograph.

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ensured by a vacuum system, producing pressures of up to 1.10-4 Hg in the working ensured by a vacuum system, producing pressures of up to 1.10 ng in the working space and 1.10-6 Hg in the gun. A high vacuum can be obtained by using several Electron-beam melting pumps (e.g., steam-oil pumps with 3,000 - 8,000 l/sec capacity), while for highpumps (e.g., sceam-orr pumps with 3,000 - 0,000 boster or forevacuum pumps with capacity electron-beam installations diffusion, boster or forevacuum pumps with outputs up to 42,000 1/sec should be used. The vacuum in the electron gun will be higher by using intermediate diaphragms and a self-contained vacuum system to pump cut the air from the electrode area, and several pumps for the focussing and deflecting devices. The automatic voltage and current control is effected by an intricate electronic system compensating the resistance variations between anode and cathode and controlling the electric parameters of the electron beam during the melting process. The electron gun is produced in different designs depending on the application. The cathode is either a tungsten spiral wire, 0.25 - 0.3 mm in diameter, or a disk 20 mm in diameter made of tungsten, chenium or tantalum. When the installation is used for zone melting the cathode has the shape of a ring fitted with special reflectors. The same installation can be used for the melting of metals consisting of different charges, e.g., with consumable electrods mercing of metals consisting of unfilled the electron beam melting installations used or dosing of individual portions. The electron beam melting installations used at present have a power of 15 - 1,500 kw and produce ingots of different highmelting metals 25 - 200 mm in diameter. To obtain larger ingets, either the beam

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Electron-beam melting

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power or the number of guns has to be increased. In the first case the voltage must be raised above 20,000 v, therefore, it is more economical and simpler to use two electron guns, such an installation being described by the author. Melting by electron bombardment, compared with other methods, has a number of considerable advantages, since it is carried but in a high vacuum and intense and protracted everheating of the melt is possible. Theoretically, an upper temperature limit does not exist with electron-beam melting; the temperature is only limited by the practical boiling and evaporation of the metal being melted. The metal is degassed and refined from nonmetallic and metallic impurities rather efficiently. Iron, aluminum, nickel and chromium evaporate in the first place; nonmetallic impurities like carbon, oxygen and nitrogen are eliminated in the form of carbon monoxide, metal monoxides and nitrides. Nonmetallic impurities overheat more than metallic ones and evaporate considerably more intensive. A table presents data characterizing the changes in the chemical composition of tantalum and hafnium smelted by electron bombardment. The dogree of metal refinement in electron-beam melting attains such values that the content of ordinary elements is below the sensitivity threshold of analysis (Ref. 3: W. Scheibe, Metall Zeitnehrift für Technik, Industrie und Handel, no. 5, 1960). Concluding, the author discusses some problems and ways of metal reduction in electron-beam melting. There are 7

Electron-beam melting figures, 1 table and 3 non-Sovie language publication reads as for 1960.	27739 S/128/61/000/006/003/004 A054/A127 -bloc references. The reference to the English- lows: Journal less Common Metals, no. 2, 104,

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CIA-RDP86-00513R001654020007-6" APPROVED FOR RELEASE: 03/14/2001

S/0166/64/000/003/0074/0075 AUTHOR: Lyutovich, A. S., Sinyukov, V. A., Mamanov, O. A., Suvorov, A. N., ACCESSION NR: AP4044797 TITLE: Controlling the quality of polycrystalline silicon by measuring its electrophysical Gudoshnikov, A. V. SOURCE: AN UzSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 3, 1964, parameters TOPIC TAGS: polycrystal, monocrystal, electrophysical parameter, conductivity, charge 74-75 carrier, resistivity, silicon, polycrystalline silicon ABSTRACT: The paper describes the quality control of polycrystalline siliconby measurement of electrophysical parameters such as the type of conductivity, specific resistance, concentration of charge carriers and their mobility. The method described for polyconcentration of charge carriers and their modifity. The method described for polycrystals is, in principle, the same as the analogous control technique for monocrystals. Studies have shown, however, that the specific resistance of polycrystals should be measured at higher current densities than with monocrystals. Figure 1 in the Enclosure shows some of the experimental results. Orig. art. has: 2 figures. Card 1/3

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AUTHORS:

Broder, D. L., Leshuk, A. I., Sadokhin, I. P., Suvorov, A. P.

TITLE:

Inelastic scattering of neutrons from iron nuclei

SOURCE:

Teoriya i metody rascheta yadernykh reaktorov; sbornik statey. Ed. by G. I. Marchuk. Moscow, Gosatomizdat, 1962,

254 - 259

TEXT: The aim of the work was to determine the inelastic scattering cross section in the range lyzing experimental data as accurately as possible. Supplementary experiments were carried out to provide missing data was used as a source of neutrons for the 0.80 - 2.5 Mev range, and was used as a source of neutrons for the 0.80 - 2.5 Mev range, and 0.31 FEU-13) photomultiplier. Hence the pulses were fed through an amplifier to a 128-channel pulse-height analyzer. The investigations were carried out for the components of the most abundant natural isotopic composition: 91.68 Fe⁵⁶, 5.48 Fe⁵⁴, 2.17 Fe⁵⁷ and 0.31 Fe⁶⁸. The position: 91.68 Fe⁵⁶, 5.48 Fe⁵⁴, 2.17 Fe⁵⁷ and 0.31 Fe⁶⁸. The cross sections of the γ-quantum yield when neutrons of various energies

ACCESSION NR: AT4019041 AUTHOR: Broder, D. L.; Lashuk, A. I.; Sadokhin, I. P.; Suvorov, A. P. TITLE: Selection of a system of excitation functions for the energy levels during nickel and niobium inelastic scattering of neutrons by the nuclei of iron nickel and niobium of reactor shielding; collection of articles). Hoscow, Gosatomizdat, 1963, 132-142, of reactor shielding; collection of articles). Hoscow, Gosatomizdat, 1963, 132-142, of reactor shielding; collection of articles). Hoscow, Gosatomizdat, 1963, 132-142, of reactor shielding; collection of articles. Hoscow, Gosatomizdat, 1963, 132-142, of reactor shielding reactor, reactor shielding reactor, reactor shielding. ABSTRACT: Cross sections of the energy levels produced during the inelastic scatering of neutrons by the nuclei of iron, nickel and niobium were investigated by the degradation of the excited, measuring the spectrum of the years created by the degradation of the excited, measuring the spectrum of the years created by the degradation of the excited, measuring the spectrum of the years created by the degradation of the excited, the reaction T3(p,n) He3 obtained in a Van der the reaction T3(p,n) He3 obtained in a Van der the reaction T3(p,n) He3 in a Van der Graaf generater for the energy range 0.8-2.5 Mev and the reaction D(d,n) He3 in a Van der Cascade accelerator for the range 2.5-4.0 Mev. The X-ray spectrometer consisted cascade accelerator for the range 2.5-4.0 Mev. The X-ray spectrometer consisted cascade accelerator for the range 2.5-4.0 Mev. The X-ray spectrometer consisted cascade accelerator for the range 2.5-4.0 Mev. The X-ray spectrometer consisted cascade accelerator for the range 2.5-4.0 Mev. The X-ray spectrometer consisted cascade accelerator for the range 2.5-4.0 Mev. The X-ray spectrometer consisted cascade accelerator for the range 2.5-4.0 Mev. The X-ray spectrometer consisted cascade accelerator for the range 2.5-4.0 Mev. The X-ray spectrometer consisted cascade accelerator for the range 2.5-4.0 Mev. The X-ray spectrometer	ACCESSION NR: AT4019041 AUTHOR: Broder, D. L; Lashuk, A. I.; Sadokhin, I. P.; Suvorov, A. P. TITLE: Selection of a system of excitation functions for the energy levels during nickel and niobium nickel and niobium nickel and niobium states and niobium nickel neutron scattering, Gosatomizdat, 1963, 132-142 (Gosatomizdat, 1963, 132-142) (Gosatomizdat, 1963, 132
ACCESSION NR: AT4019041 AUTHOR: Broder, D. L,; Lashuk, A. I.; Sadokhin, I. P.; Suvorov, A. P. AUTHOR: Broder, D. L,; Lashuk, A. I.; Sadokhin, I. P.; Suvorov, A. P. TITLE: Selection of a system of excitation functions for the energy levels during nickel and niobium inelastic scattering of neutrons by the nuclei of iron nickel and niobium statey (Problems in physics Source: Voprosy* fiziki zashchity* reaktorov; sbornik statey (Problems in physics Gosatomizdat, 1963, 132-142 of reactor shielding; collection of articles). Moscow, Gosatomizdat, 1963, 132-142 of reactor shielding reactor, reactor shielding nucleus, niobium nucleus, nuclear reactor, reactor shielding ABSTRACT: Cross sections of the energy levels produced during the inelastic scatering of neutrons by the nuclei of iron, nickel and niobium were investigated by the reasuring the spectrum of the Orays created by the degradation of the excited, the reaction T3(p,n) He3 obtained in a Van der the reaction T3(p,n) He3 obtained in a Van der the reaction D(d,n) He3 in a Van der Raaf generater for the energy range 0.8-2.5 Mey and the reaction D(d,n) He3 in a Van der Cascade accelerator for the range 2.5-4.0 Mev. The Vary spectrometer consisted Monitoring of the neutron flux was performed with a boron counter and a UZ35.	ACCESSION NR: AT4019041 AUTHOR: Broder, D. L; Lashuk, A. I.; Sadokhin, I. P.; Suvorov, A. P. TITLE: Selection of a system of excitation functions for the energy levels during nickel and niobium nickel and niobium states and niobium nickel and niobium states (Problems in physics SOURCE: Voprosy* fiziki zashchity* reaktorov; sbornik of reactor shielding; collection of articles). Moscow, Gosatomizdat, 1963, 132-142 of reactor shielding; collection of articles). Moscow, Iron nucleus, nickel function, Gamma ray spectrum, energy level cross section, Iron nucleus, nickel nucleus, niobium nucleus, nuclear reactor, reactor shielding
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AUTHOR: Suvorov, A. P.	neutrons in iron, hydrogen and wat	er (P7-approxi-
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AUTHOR: Suverov, A. P.; Guseynov, A. G.; Nikolayev, M. N. AUTHOR: Suverov, A. P.; Guseynov, A. G.; Nikolayev, M. N. TITLE: Effective resonance structure of the cross sections on the anisotropy of the cross sections of the cross sect	
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AUTHOR: Suverov, A. P.; Guseynov, A. d., AUTHOR: Suverov, A. P.; Guseynov, A. d., AUTHOR: Suverov, A. P.; Guseynov, A. d., TITLE: Effective resonance structure of the cross sections on their passage through iron TITLE: Effective resonance structure of the cross sections on their passage through iron Scattering of fast neutrons, and on their passage through iron Scattering o	,
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ANTHOR: Effective resonance structure passage TITLE: Effective resonance and on their passage scattering of fast neutrons and on their passage SCUNCE: Atomnaya energiya, v. 18, no. 3, 1965, 278-282 SCUNCE: Atomnaya energiya, v. 18, no. 3, 1965, 278-282 TOPIC TAGS: resonance cross section, fast neutron scattering, reactor used in the shield in the influence of the resonance extensively used in the shield in the extensively used in the shield is extensively used in the shield in the scattered with the influence of the resonance extensively used in the scattered. ABSTRACT: The article deals with the influence of the which is the scattered with a section of a BR-5 reactor. The scattered with a scattered contained from the active zone of a BR-5 reactor behind an absections on the passage of from the active zone of a BR-5 reactor behind an absections were obtained from the active zone of the detector of neutrons passage reactor shields. The experimental resonance fast neutrons were obtained with a multiple-layer rates of the detector of neutrons reactor. The experimental resonance fast neutrons were obtained with a multiple-layer rates of a detector of neutrons reactor.	
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ABSTRACT: In the passage experimental sective zone ionization flactor beatrons passage sections on the experimental sective zone ionization flactor beatrons passage reactor shields. The experimental reactor shields were obtained from the active zates of the detector of neutrons were registered with a multiple-layer fates of a detector of neutrons neutrons were made of the counting rate of a detector fast registered with a multiple-layer fate of a detector of neutrons neutrons were registered with a counting rate of a detector fast fate of a detector fast fate of a detector fast fate of a detector fate of a detecto	
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ACCESSION NR: AP5009124		
media consisting of medium pected at lower energies (the resonance structure of effect of screening on the accurate calculations. ""	m-weight nuclei. A large sid (1.52 MeV). When account if f the cross sections, it beed e angular distributions and v The authors thank the late I. nterest in the work and for	use the subgroup method for I. Fondarenko, V. V. Orlov,
art has: 3 figures, 9 fe	Organization and State of the S	13.7
ASSOCIATION: None		SUIS CODE: NP
	encl: Ol	SUIS CODE: NP
ASSOCIATION: None		SUB CODE: NP
ASSOCIATION: None SUBSTITED: 15Jun64	encl: Ol	EUR CODE: NP

I 05053-67 EWT(m) JR/GD CC NR: AT6027917	SOURCE CODE: UR/0000/66/000/000/0005/0021
	A. A.; Fedorenko, R. P.; Dubinin, A. A.; Suvorov,
1. P.	45
ORG: None	45 B+/
TITLE: Optimizing the physical	characteristics of radiation shielding
SOURCE: Voprosy fiziki zashchi ing); sbornik statey, no. 2. Mo	ty reaktorov (Problems in physics of reactor shield- oscow, Atomizdat, 1966, 5-21
COPIC TAGS: radiation shielding perturbation theory	ng, variational problem, successive approximation,
reactor shielding to give minim	the problem of selecting the ratio of components in num weight or overall dimensions for a given reduction chieve a minimum radiation dose for given shielding
weight or dimensions. The prob timum of some quantity when give various approaches to solution	olem is formulated as a variational problem on the op- yen conditions are imposed on other quantities. The of the problem given in the literature are briefly teristics of the shielding (neutron and gamma doses,
meat release, weight, etc.) are	e considered within the framework of perturbation tions of effectiveness of shielding materials is intro-
ard 1/2	

AUTHOR: Germogenova, T. A.; Suvorov, A. P.; Utkin, V. A. ORG: None TITLE: Penetration of neutrons through plane-parallel multilayer media SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shielding); sbornik statey, no. 2. Moscow, Atomizdat, 1966, 22-39 TOPIC TAGS: neutron radiation, finite difference, computer programming, radiation shielding, RADIATION INTENSITY ABSTRACT: A finite-difference method is proposed for a numerical solution of a one- dimensional kinetic equation describing the penetration of radiation through a ma- terial in terms of complex functions of energy, angles and spatial coordinates. This method is based on the multigroup system of analysis and gives high accuracy while requiring a comparatively small amount of machine time. In solving the finite-difference system, the coefficients of transmission and reflection are calculated for a se- quence of layers increasing in thickness and these coefficients are then used for finding the approximate values of radiation intensity. This method is not as sensi- tive as iteration methods to an increase in the dimensions of the system or to steep gradients in the coefficients. The method is used for	I, 05052-67 EWT (m) JR/GD ACC NR: AT6027918	SOURCE CODE: UR/0000	0/66/000/000/0022/0039
SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shielding); sbornik statey, no. 2. Moscow, Atomizdat, 1966, 22-39 TOPIC TAGS: neutron radiation, finite difference, computer programming, radiation shielding, RADIATION INTENSITY ABSTRACT: A finite-difference method is proposed for a dimensional kinetic equation describing the penetration of radiation through a madimensional kinetic equation describing the penetration of radiation through a madimensional kinetic equation describing the penetration of radiation through a madimensional kinetic equation describing the penetration of radiation through a madimension and reflection are calculated. In solving the finite-difference system, the coefficients of transmission and reflection are calculated for a sequence of layers increasing in thickness and these coefficients are then used for finding the approximate values of radiation intensity. This method is not as sensifingly and the difference of the system or to steep	UTHOR: Germogenova, T. A.; Suvorov	v, A. P.; Utkin, V. A.	41
SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shielding); sbornik statey, no. 2. Moscow, Atomizdat, 1966, 22-39 FOPIC TAGS: neutron radiation, finite difference, computer programming, radiation shielding, RADIATION INTENSITY ABSTRACT: A finite-difference method is proposed for a dimensional kinetic equation describing the penetration dimensional kinetic equation describing the penetration of radiation through a madiation in terms of complex functions of energy, angles and spatial coordinates. This method is based on the multigroup system of analysis and gives high accuracy while requiring a comparatively small amount of machine time. In solving the finite-difference system, the coefficients of transmission and reflection are calculated for a sequence of layers increasing in thickness and these coefficients are then used for this method is not as sensifinding the approximate values of radiation intensity.		3.2.3.2.3.2.3.2.4.3.2.2.2.2	St/
ABSTRACT: A finite-difference method is proposed for a dimensional kinetic equation describing the penetration and spatial coordinates. This terial in terms of complex functions of energy, angles method is based on the multigroup system of analysis and gives high accuracy while requiring a comparatively small amount of machine time. In solving the finite-difference system, the coefficients of transmission and reflection are calculated for a sequence of layers increasing in thickness and these coefficients are then used for finding the approximate values of radiation intensity. This method is not as sensified in the system or to steep	ITLE: Penetration of neutrons thr	bugh plane-parallel mult	rrayer media
TOPIC TAGS: neutron radiation, finite difference, computer programming, radiation shielding, RADIATION INTENSITY ABSTRACT: A finite-difference method is proposed for a dimensional kinetic equation describing the penetration of radiation through a madiation in terms of complex functions of energy, angles and spatial coordinates. This method is based on the multigroup system of analysis and gives high accuracy while requiring a comparatively small amount of machine time. In solving the finite-difference proposed for a machine time. In solving the finite-difference proposed for a machine time. In solving the finite-difference proposed for a machine time. In solving the finite-difference proposed for a mumerical solution of a one-of radiation through a machine time. In solving the finite-difference proposed for a mumerical solution of a one-of radiation through a machine time. In solving the finite-difference proposed for a mumerical solution of a one-of radiation through a machine time. In solving the finite-difference proposed for a mumerical solution of a one-of radiation through a machine time. In solving the finite-difference proposed for a mumerical solution of a one-of radiation through a machine time. In solving the finite-difference proposed for a mumerical solution of a one-of radiation through a machine time. In solving the finite-difference proposed for a mumerical solution of a one-of radiation through a machine time. In solving the finite-difference proposed for a mumerical solution of a one-of radiation through a machine time.	sbornik statey, no. 2. Moscow, Acom	12020, 1900, 22 35	
dimensional kinetic equation describing the pysions and spatial coordinates. This terial in terms of complex functions of energy, angles and spatial coordinates. This method is based on the multigroup system of analysis and gives high accuracy while method is based on the multigroup system of machine time. In solving the finite-differerequiring a comparatively small amount of machine time. In solving the finite-difference system, the coefficients of transmission and reflection are calculated for a sequence of layers increasing in thickness and these coefficients are then used for quence of layers increasing in thickness and these coefficients are then used for finding the approximate values of radiation intensity.	TOPIC TAGS: neutron radiation, fin shielding, RADIATION INTENS	ite difference, computer	
quence of layers increasing in thickness and theorem. This method is not as sensifinding the approximate values of radiation intensity. This method is not as sensifinding the approximate values of radiation intensity.	dimensional kinetic equation descri- terial in terms of complex function method is based on the multigroup s requiring a comparatively small amo ence system, the coefficients of tr	s of energy, angles and system of analysis and giunt of machine time. In ansmission and reflection	spatial coordinates. This ves high accuracy while solving the finite-differ- on are calculated for a se-
	quence of layers increasing in thic finding the approximate values of r	adiation intensity. The	is method is not as sensi-
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AUTHOR: Germogen va, T. A.; Suvorov, A. P.; Utkin, V. A.; Bass, L. P.	
ORG: None	
TITLE: Neutron transfer in nonmultiplying systems with spherical symmetry	
SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shield- ing); sbornik statey, no. 2. Moscow, Atomizdat, 1966, 57-66	
TOPIC TAGS: neutron radiation, radiation source, scattering cross section	1
ABSTRACT: The literature on methods for solution of radiation transfer problems is	· P
the problem of an isotropic point source in an initial medium, the solutions for	1
these problems are compared on the basis of the one of A comparison of formulas de-	
scattering for spheres with finite and infinite fault. A compared with a large radius scribing the asymptotic behavior of the density of a finite sphere with a large radius	-(
shows that the results of calculations of the density by directly used for determining	
point source in an infinite homogeneous medium may be allowed; the density only when absorption is less than 1 everywhere except in the region adthete density only when absorption is less than 1 everywhere except in the region adjacent to the boundary r=R. Orig. art. has: 6 figures, 9 formulas.	- 1
SUB CODE: 20, 18/ SUBM DATE: 12Jan66/ ORIG REF: 007/ OTH REF: 002	
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UTHOR: Germogenova, T. A.; Suvor	ov, A. P.; Ut	kin, V. A.		50 Br/
RG: None		,	2 10	
ITLE: Angular energy spectra for			/9	
OURCE: Voprosy fiziki zashchity bornik statey, no. 2. Moscow, Ato	reaktorov (Pi mizdat, 1966)	roblems in phys , 74-87	sics of reactór	shielding);
OPIC TAGS: fast neutron, radiation, neutron spectrum	on shielding	, angular dist	ribution, neutr	on distribu-
ESTRACT: The authors give some istributions of fast neutrons being the differential intensity of epth x in the direction Ω determination at the direction equation	aind flat iron a stream of mand by the an	n plates of varieutrons $F(x)$	rious thickness μ , ϕ , E) of ene (with the x -ax	ergy E at a
$\mu \frac{\partial F}{\partial x} + \sum (x, E) F(x, \mu, \varphi, E) = 0$	$dQ' \int_{E_{max}}^{E_{max}} dE' \sum_{s} (i)$	$E' \to E, \ \Omega'\Omega$	μ', φ', Ε')	
as used together with boundary co	onditions des	cribing the an	gular and energ	y distribu-
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L 05046-67 EWT(m)/EWP(t)/ETI I ACC NR: AT6027924 SOURCE	JP(c) JD/JR/GD CODE: UR/0000/66/0	00/000/0088/0103	43
JTHOR: Broder, D. L.; Zhilkin, A.	S.; Kutuzov, A. A.;	Suvorov, A. P.	43 B+/
RG: None	·		
ITLE: Spectra of fast neutrons in			
OURCE: Voprosy fiziki zashchity re bornik statey, no. 2. Moscow, Atomi	zdat, 1900, 00-105	17	10
OPIC TAGS: fast neutron, neutron	nergy distribution,	radiation shielding,	neutron
cattering	27	10	
BSTRACT: The spectra of fast neutr symptotic spectra are calculated in armonics using recent measurements n iron and lead. Approximate accou ering, and anisotropy due to direct	for the excitation in the taken of neutrons in the	unctions on individuon moderation in ela	al levels astic scat- Experimental
easurements of the spatial energy opecimens measuring $710 \times 710 \times 600$ mm. (d,n) He ⁴ (14.9 mev) and $D(d,n)$ He ³ (Two reactions were (3.35 mev). Since the	used as neutron sour ne deuterium target h	rces: nad a thick- monochroma-
ic. This fact was taken into cons	ideration in the cal	curations. The neutr	on special
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amplitude analy compared and sh table, 32 formu	zer. The the now generally nlas.	satisfactory a	an FEU-13 photo experimental spec greement. Origon REF: 011/ OTA	art. has: 9 f	
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I. 0501:14-67 EWT(m) JD/GD ACC NR: AT6027928 SOURCE CODE: UR/0000/66/0	00/000/0123/0140
AUTHOR: Orlov, V. V.; Suvorov, A. F.	B+/
DRG: None	
FITLE: Irradiation integral as a function of the neutro timum structure for radiation shielding in a reactor ves	n energy spectrum and the op-
SOURCE: Voprosy fiziki zashchity reaktorov (Problems in sbornik statey, no. 2. Moscow, Atomizdat, 1966, 123-140	physics of reactor shielding);
TOPIC TAGS: neutron spectrum, radiation shielding, radi	ation damage
ABSTRACT: The literature on radiation damage in solids ation shielding is briefly reviewed and the radiation efficiency of the study is simplified by restriction to the considered. The study is simplified by restriction to the considered and applied to the selection of the shielding in nuclear reactor vessels. It is shown to be compositions for radiation shielding are considered for description of radiation damage in the material rived in the paper are illustrated by application to irousels may be used for calculating the irradiation integriselecting optimum radiation shielding. In conclusion the Liforov for carrying out the numerical calculations. On table, 32 formulas.	he main component of steel, . Models of radiation damage optimum structure for radia- that the characteristics of rably dependent on the method s used. The expressions de- n-water shielding. The re- al of reactor vessels and for e authors thank V. I.
SUB CODE: 18/ SUBM DATE: 12Jan66/ ORIG REF: 014/ C	TH REF: 017

ACC NR: AR6031862

SOURCE CODE: UR/0058/66/000/006/V068/V068

AUTHOR: Suvorov, A. P.; Utkin, V. A.

TITLE: Passage of fission neutrons through iron plates

SOURCE: Ref. zh. Fizika, Abs. 6V559

REF SOURCE: Byul. Inform. tsentra po yadern. dannym, vyp. 2, 1965, 334-340

TOPIC TAGS: neutron beam, neutron angular distribution, fast neutron, neutron energy spectrum, collimated scintillation spectrometer, fission neutron

ABSTRACT: The results of calculations by the method of "transmission matrix" in the 2P₇-approximation are compared with experimental data based on measurements of iron layers 5 and 15 cm thick of fast neutron angular energy spectra by means of a collimated scintillation spectrometer. The plates were irradiated by a plane monodirected beam of neutrons emerging from the reflector of a uranium-water reactor. Agreement between experimental and computational data in describing the angular distribution of neutrons is satisfactory. A certain divergence is explained by the use in the calculation of group constants adapted for the calculation of expanded media. Results are given of the calculation of angular distributions of

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neutrons reflected from the depth of penetration				depending on
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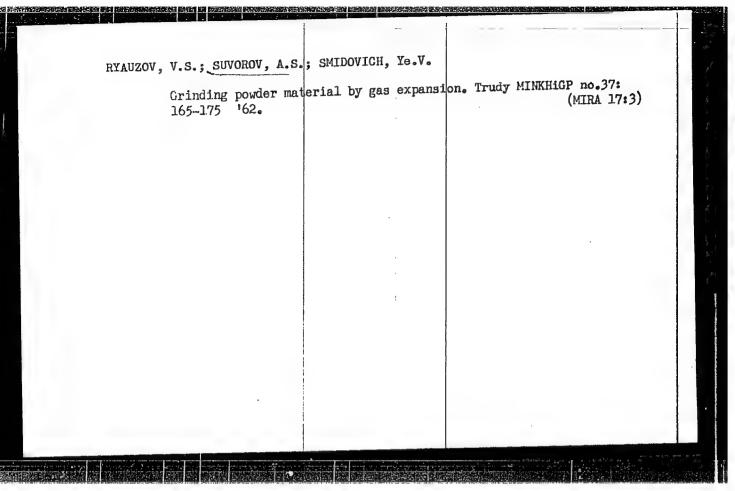
)/ETI IJP(c) JD/WW/JG/JR SOURCE CODE: UR/0089/66 Dulin, V. A.; Yermakov, S. M.; A.	
SOURCE: Atomnaya energiya	on of <u>fast neutrons</u> behind iron, v. 20, no. 6, 1966, 469-473 ²	.
neutrons behind iron shield ment are compared with cal- calculations by the "trans results of the calculation strongly on the angular dis	e measured the angular and energy desired to and 15 cm thickness. The culations by the Monte Carlo memission matrix method in the 2 s show that the transmission of stribution of the incident rading an RIZ uranium—water reactor of the experimental and the cal	thod and with many-group P7 approximation. The the shield depends ation. The transmission with a stainless steel
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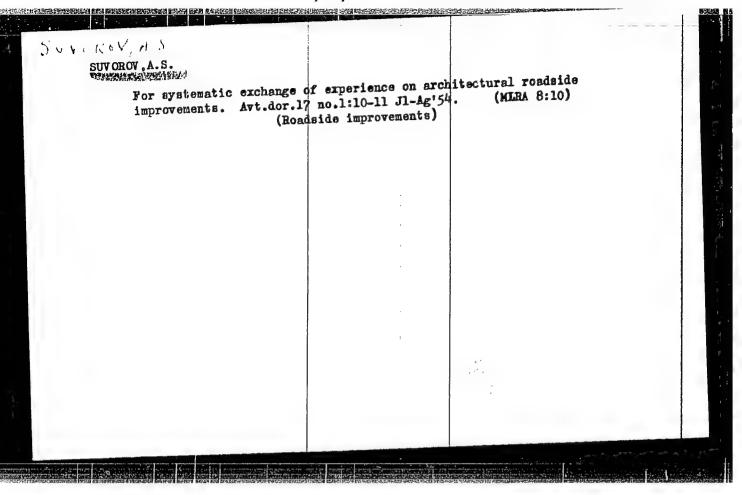
AUTHOR: Payloy, I. M.; Mekhed, G. N.; Suvorov, V. A. TITLE: Effect of temperature on the mechanical properties of iron-aluminum alloys SCURCE: Ref. zh. Mashinostr mat konstr i raschet detal mach. Gidropr, Abs. 3.48.57 RUF SCURCE: Tr. Mosk. in-ta stali i splavoy i Mosk. energ. in-ta, vyp. 61, ch. 1, 1965, 169-179 TOPIC TAGS: iron aluminum alloy, aluminum alloy property ductility, ultimate strength ABSTRACT: Fe-Al alloys were studied with aluminum concentrations of 8.00, 11.50, 14.00 and 16.50% conditionally designated as Yu8, Yu12, Yu14, and Yu16 respectively. 14.00 and 16.50% conditionally designated as Yu8, Yu12, Yu14 and Yu16 respectively. 15.00 of 12% or more have low ductility (6<5%, \$45% Alloys with an aluminum concentration of 12% or more have low ductility (6<5%, \$45% Alloys with an aluminum concentration and a, 1.3 %g/cm²) and are brittle at room temperature. The mechanical properties of iron-aluminum alloys depend on temperature and aluminum concentration. There is a front two groups on the basis of \$a\$ a function of temperature. Alloys in the first into two groups on the basis of \$a\$ as a function of temperature. Alloys in the first group (Yu8 and Yu12) show little change in \$a\$ (less than \$a\$). In the second group (Yu14 and Yu16) \$a\$ increases (up to \$10%) as the temperature is raised. Alloys with		E STEEL S
SOURCE: Ref. zh. Mashinostr mat konstr i raschet detal mash. Gidropr, Abs. 3.48.57 REF SOURCE: Tr. Mosk. in-ta stali i splavoy i Mosk. energ. in-ta, vyp. 61, ch. 1, 1965, 169-179 TOPIC TAGS: iron aluminum alloy, aluminum alloy property ductility, ultimate strength ABSTRACT: Fe-Al alloys were studied with aluminum concentrations of 8.00, 11.50, 14.00 and 16.50% conditionally designated as Yud, Yul2, Yul4 and Yul6 respectively. Alloys with an aluminum concentration of 12% or more have low ductility (6<5%, ψ -5% Alloys with an aluminum concentration of 12% or more have and a.<1.3 kg/cm²) and are brittle at room temperature. The mechanical properties of iron-aluminum alloys depend on temperature and aluminum concentration. There is a iron-aluminum alloys depend on temperature and aluminum concentration. There is a fine two groups on the basis of σ_b as a function of temperature. Alloys in the first group (Yu8 and Yu12) show little change in σ_b (less than yul4). In the second group (Yu8 and Yu16) σ_b increases (up to 40%) as the temperature is raised. Alloys with	1 1 2 2 1 - 17	*
TOPIC TAGS: iron aluminum alloy, aluminum alloy property ductility, ultimate strength ABSTRACT: Fe-Al alloys were studied with aluminum concentrations of 8.00, 11.50, 14.00 and 16.50% conditionally designated as Yu8, Yu12, Yu14 and Yu16 respectively. Alloys with an aluminum concentration of 12% or more have low ductility (6<5%, ψ <5% Alloys with an aluminum concentration of 12% or more have low ductility (6<5%, ψ <5% and α <1.3 kg/cm²) and are brittle at room temperature. The mechanical properties of iron-aluminum alloys depend on temperature and aluminum concentration. There is a iron-aluminum alloys depend on temperature and aluminum concentration. There is a iron-aluminum of the basis of σ_b as a function of temperature. Alloys in the first into two groups on the basis of σ_b as a function of temperature. Alloys in the first group (Yu8 and Yu12) show little change in σ_b (less than π_b). In the second group (Yu14 and Yu16) σ_b increases (up to π_b) as the temperature is raised. Alloys with	SCURCE: Tr. Mosk. in-ta stali i splavoy i Mosk. energ. in-ta, vyp. 61, ch. 1,	A - Transfer
UDC: 669.15'71	TOPIC TAGS: iron aluminum alloy, aluminum alloy property ductility, ultimate strength ARSTRACT: Fe-Al alloys were studied with aluminum concentrations of 8.00, 11.50, 14.00 and 16.50% conditionally designated as Yu8, Yul2, Yul4 and Yu16 respectively. Alloys with an aluminum concentration of 12% or more have low ductility (6<5%, ψ <5% Alloys with an aluminum concentration of 12% or more have low ductility (6<5%, ψ <5% and a <1.3 kg/cm²) and are brittle at room temperature. The mechanical properties of iron-aluminum alloys depend on temperature and aluminum concentration. There is a iron-aluminum alloys depend on temperature and aluminum concentration. There is a sharp increase in strength characteristics at 100-200°C. The alloys may be divided sharp increase in strength characteristics at 100-200°C. The alloys in the first into two groups on the basis of σ_b as a function of temperature. Alloys in the first into two groups on the basis of σ_b as a function of temperature. The second group	() () () () () () () () () () () () () (
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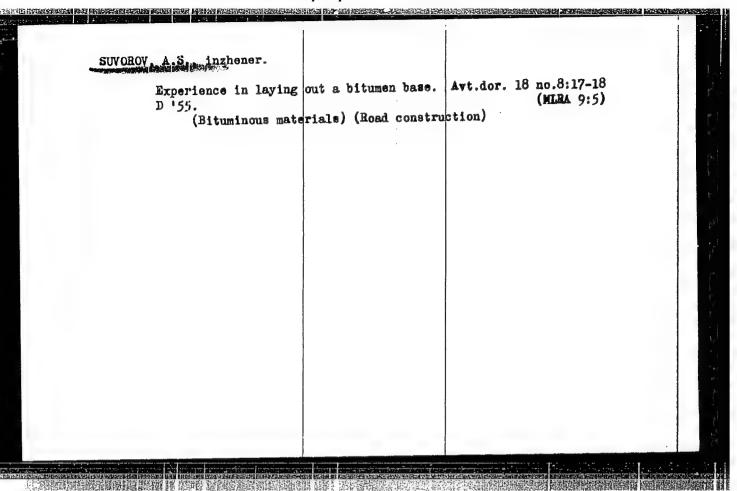
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n aluminum concentration from 8 to 16.5%	have two maxima on a_k curves. An	increase
n the concentration of aluminum in the a lirst maximum (from 32 to 10 kg/cm²) with	alloy is accompanied by a reduction a shift toward higher temperature slightly dependent on aluminum conceptions.	s (from 200 entration
nd show similar values for Yu8, Yul2 and	i Yull alloys. [Translation of abs	tractl
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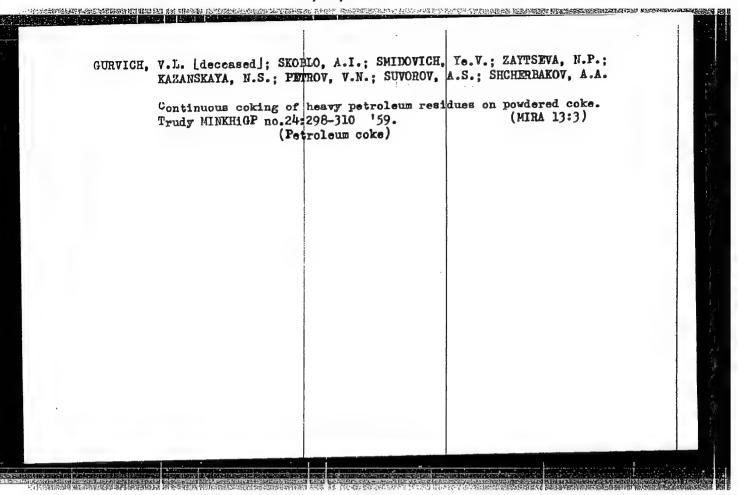
UR/0089/66/021/005/0392/0394 SOURCE CODE! ACC NR: (A, N)AP7000798 AUTHOR: Degtyarev, S. F.; Kukhtevich, V. I.; Suvorov, A. P.; Tarasov, V., V.; Tikhonov V. K.; Tsypin, S. G. ORG: none TITLE: Angular distributions of fast neutrons emerging from hydrogen-containing media SOURCE: Atomnaya energiya, v. 21 no. 5, 1966, 392-394 TOPIC TAGS: fast neutron, neutron distribution, lithium compound, water, neutron radiation, radiation intensity, neutron shielding, reation detector ABSTRACT: The authors report results of experiments on the angular distributions of the flux (dose intensity) of fast neutrons with energy E > 0.7 MeV, emerging from plates of lithium hydride of 0.5 g/cm³ density and 15, 30, 45, and 60 cm thick, and from layers of water 15 and 45 cm thick. The radiation source was a collimated beam of neutrons (plane unidirectional source). The neutron spectrum was similar to that of the BSR reactor. The measurements were made for angles 0 - 55°. The neutrons were registered with a fast-neutron scintillation detector consisting of a Plexiglas tablet with ZnS(Ag) admixture, secured to the end window of a photomultiplier (FEU-59). The results show that for angles larger than 10° a change in the plate thickness has little effect on the form of the angular distribution. At angles 0 - 10°, the neutron flux exhibits a pronounced peak due essentially to unscattered neutrons. With increasing thickness of lithium-hydride plates, the height and width of this 539.125.5: 539.121.72 UDC: Card 1/2

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peak decrease, o	wing to	o the :	increase	in the	fraction	of scat	tered neu	trons.	The re-
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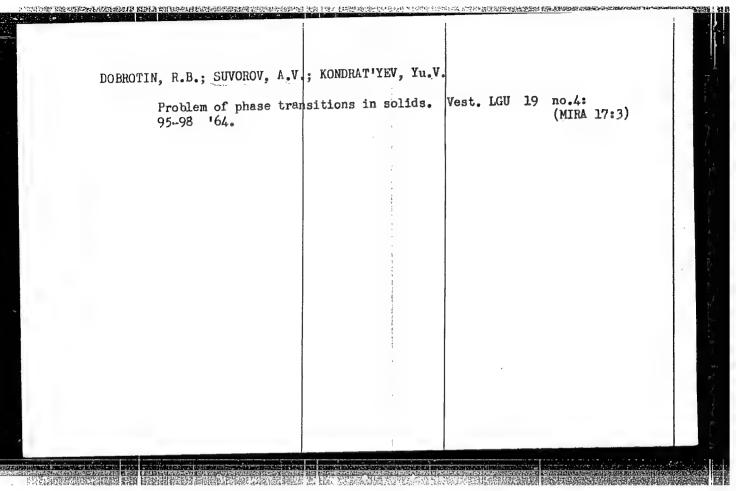




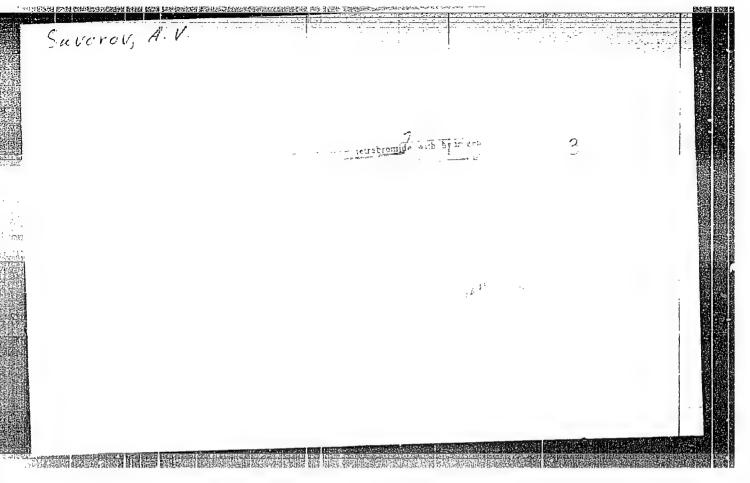
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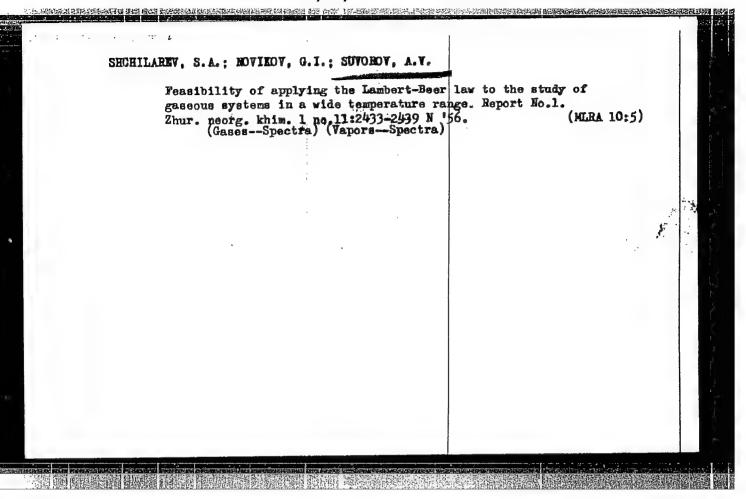
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Card 1/1			
Author	:	Suvorov, A. V.	
Title	:	Accelerated heating of the separation apparatus of an oxygen installation	
Periodical	•	Khim. prom. 3, p 58 (186), April-May 1954	
Abstract	0	Describes a procedure whereby the time necessary for heating of the separation apparatus of an exygen installation of type SK-05 manufactured by the "Komsomolets" plant and employed at the "Armalit" plant was reduced by a factor of 6-8. The editors of the periodical suggest that the procedure proposed by the author be taken into consideration by the Main Oxygen Administration in connection with the manufacture of oxygen installations. No references.	





AUTHORS: TITLE: PERIODICAL: ABSTRACT:	Sov/78-3-12-7/36 Shchukarev, S. A., Novikov, G. I., Suvorov, A. V., Bayev, A. K. Optical and Tensiometric Investigation of the Chlorides of Hexavalent Tungsten (Opticheskeye i tenzimetricheskoye Hexavalent Tungsten (Opticheskeye i tenzimetricheskoye shestivalentnogo vol'frama) issledovaniye khloroproizvodnykh shestivalentnogo vol'frama) Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 12, pp 2630-2641 (USSR) Several equilibria pertaining to the chlorine derivatives of hexavalent tungsten in the series WO ₃ -WO ₂ Cl ₂ -WOCl ₄ -WCl ₆ were hexavalent tungsten in the series wo ₃ -WO ₂ Cl ₂ -WOCl ₄ -WCl ₆
Gard 1/3	investigated. Optical and tensiometric methods were used in determining the products of the thermal decomposition. The starting materials were produced by chlorinating WO ₃ with CCl 4. At 310-330°C WO ₂ Cl ₂ is obtained in ratio to the WO ₃ and CCl ₄ of 1:2. WCl 6 is produced at 290-300° and 80-100 atmospheres. Of the starting product was found to be satisfactory. The purity of the starting product was found to be satisfactory. The absorption spectra of the WCl 6 and WOCl 4 were measured over the interval 4000-8000 Å. The optical density of the vapor

	phase from the decomposition of decomposition proceeds according (WCl ₆)gas = (WCl ₅). The absorption coefficient wCl saturated vapor, and the average 0.46+0.05. From the tensiometric of the β-form of wc temperatures of the β-form of wc the optical and tensiometric me vestigation of the following dicarried out for the first time: 2(WOCl ₄)gas = (WCl ₆)grow the optical and tensiometrand using the linear relationsh f(1/T) it was found that the ab 0.028+0.3. The change in the frexpressed in the following equation, 4 energy units with the continuous content of the following equation, 4 energy units with the content of the following equation, 4 energy units with the content of the following equation, 4 energy units with the content of the following equation. The	the WCl ₆ was measured. The to the following equation: + 1/2 (Cl ₂) _{gas} . was determined for the value was found to be data the melting and boiling cl ₆ could be calculated. Using thods the thermodynamic in- sproportionation process was + (WO ₂ Cl ₂) _{gas} ic data for the saturated vapors ip lg P = f(1/T) and lg D = sorption coefficient wocl ₄ ree energy in this reaction is ation: ΔF^{O} solid = 15100 cal -	The second secon
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Optical and	ensionetric Investigation of the Chlorides of Hexavalent for process of WD ₂ Cl ₂ was investigated thermodynamically and firmed optically-tensionetrically: $2 \begin{bmatrix} \text{WD}_2\text{Cl}_2 \end{bmatrix} \text{solid} = \begin{bmatrix} \text{WO}_3 \end{bmatrix} \text{solid} + \begin{pmatrix} \text{WOCl}_4 \end{pmatrix} \text{gas}.$ The change in free energy in the process is expressed in following equation: ΔF^0 = 29100 cal - 42.9 cal/degrean be applied successfully to composition of complicated gas 8 tables, and 15 references, 6 of which are Soviet.	n the ee(en.ed)
SUBMITTED:	September 5, 1957	
Card 3/3		

	SOV/78-4-9-22/44 N. Maksimov, V. K.
5(2) AUTHORS:	Shchukarev, S. A., Novikov, G. I., Suvorov, A. V., Maksimov, V. K.
TITLE:	The Thermographical Investigation of the Systems WCl6 - WO3, WCl6 - WCl6 - MCl5
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 9, pp 2062-2009
ABSTRACT:	Tungsten oxychlorides are only occasionally described in publications. However, as tungsten forms a considerable number of oxides and chlorides, a corresponding number of oxychlorides of oxides and chlorides, a corresponding number of oxychlorides may be expected. The equipment used in the investigation is one of the thermograms drawn schematically drawn in figure 1. One of the thermograms drawn galvanometers is given in galvanometers is given in figure 2 as an example. A scheme of the electric furnace is figure 2 as an example. A scheme of the electric furnace is shown in figure 3. Figure 4 represents the melting-point diagram of the system WCl ₆ - WO ₃ . From this it is evident that two oxychlorides are formed in the system WCl ₆ - WO ₂ (Fig 5) three melting-point diagram of the system WCl ₆ - WO ₂ (Fig 5) three hitherto unknown oxychlorides were deduced:
Card 1/2	

The Thermographical Investigation of the Systems SOV/78-4-9-22/44 WCl6 - WO2, WCl6 - MCCl5

3WCl6.WO2, WCl6 - WCO2 (or WCCl3), and WCl6.3WO2. A simple eutectic and regions of ascertained in the melting-point diagram of the system WCl6 - MCCl5 (Fig 6). There are 6 figures and 5 references, 1 of which is Soviet.

SUBMITTED: June 16, 1958

24 (7), 5 (4) sov/48-23-10-30/39 Suvorov, A. V., Shchukarev, S. A., Hovikov, G. I. AUTHORS: On the Possibility of a Molecular Spectral Analysis of Vapors TITLE: Within a Wide Temperature Range Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, PERIODICAL: , Vol 23, Nr 10, pp 1248-1250 (USSR) For the analysis of gas- and vapor mixtures it is possible to ABSTRACT: use the spectrum of this mixture in the visible-, in the ultraviolet-, or in the infrared range; whereas in the ultraviolet range the quantum energies are already so high that un-called for photochemical reactions occur, the strong influence exercised by temperature in the infrared range is a disturbing factor. For the investigation of a complex system in equilibrium, a spectroscopic method is, in any case, insufficient, because it is necessary, besides the partial component pressures, to know also the total pressure in the system. For their determination it is possible to employ any statistical method, but the membrane method (with zero manometer) was found to be especially useful. It was found that the amount of absorption is influenced by pressure, and Card 1/3

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On the Possibility of a Molecular Spectral Analysis of SOV/48-23-10-30/39 Vapors Within a Wide Temperature Range still more by temperature. The temperature dependence of the amount of absorption has hitherto not been quantitatively investigated. Such an empirical method was the aim to be fulfilled by the authors. An investigation of the temperaturedependent variation of absorption and optical density in iodine vapors resulted in the formula $K_y = x_y T$, where x_y is a quantity which is independent of temperature. For its verification the system $^{\rm N}2^{\rm O}4$ - $^{\rm NO}2$ $^{\rm NO}$ - $^{\rm O}2$ was investigated in the range 18-480°C. Figure 3 shows the measured temperature dependence of the pressure p and of the optical density D. The diagram may be divided into 3 ranges: I) 18-1000, equilibrium

N₂O₄ = 2NO₂, II) 100-2000, pure NO₂, III) 200-4800, equilibrium 2NO2 = 2NO + O2. By using the Lamber t-Beer law a formula may be derived for the determination of x_y : $x_y = (D_y/p)(R/d)$. For a given frequency the following is thus obtained: Card 2/3

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CIA-RDP86-00513R001654020007-6

28 (5) AUTHORS:	Novikov, G. I., Suvorov, A. V. SOV/32-25-6-40/53
TITLE:	Membrane Zero Pressure Gauge for the Measurement of Vapor Pressure in a Broad Temperature Interval (Membrannyy nulimanometr dlya izmereniya davleniya parov v shirokom intervale temperatur)
PERIODICAL:	Zavodskaya Laboratoriya, 1959, Vol 25, Nr 6, pp 750-751 (USSE
ABSTRACT:	Several years membranes for of the pressure gauges according to reference 2 (Ref 1). As the membrane chamber is also in the present case not quite the membrane was molybdenum—or pyrex glass as well as of quartz (figure 1, pressure gauge). The glass membrane is made from a glass ball which is blown and then flattened (Fig 2). A rodlet is melted on to the surface the shift of which in connection with a motion of the membrane indicates a change in pressure on an opposed needle. The sensitivity of measurements thickness of the rodlet and the deviation of the top of the
Card $1/2$	thickness of the rodlet and the deviation of the

sov/32-25-9-27/53 Bayev, A. K. 28(5) Suvorov, A. V., Novikov, G. I., AUTHORS: Method of Determining the Pressure of the Saturated Vapor of Difficultly Volatile Substances TITLE: Zavodskaya labdratoriya, 1959, Vol 25, Nr 9, pp 1097-1099 (USSR) PERIODICAL: A method was developed by which the sample is vaporized in an inert gas in a closed vessel, the inert gas acting as ABSTRACT: elastic medium which transfers the vapor pressure to a pressure gauge outside the high-temperature range. From the scheme of the gauge (Fig 2) it may be seen that the substance to be investigated evaporates in a cylindrical quartz vessel which is housed in a furnace and is connected to a diaphragm zeropressure gauge by means of a tube. The latter is contained in a thermostat and transmits the pressure to the pressure gauge which permits measurements with an accuracy of # 0.5 torr. From the measurement results obtained on the apparatus described the pressure of the saturated vapor of KCl was computed, and a curve of the dependence of the vapor pressure on temperature was plotted (Fig 3). Comparison with the corresponding values in Stell's table shows good agreement of the data. There are 3 figures. Card 1/2

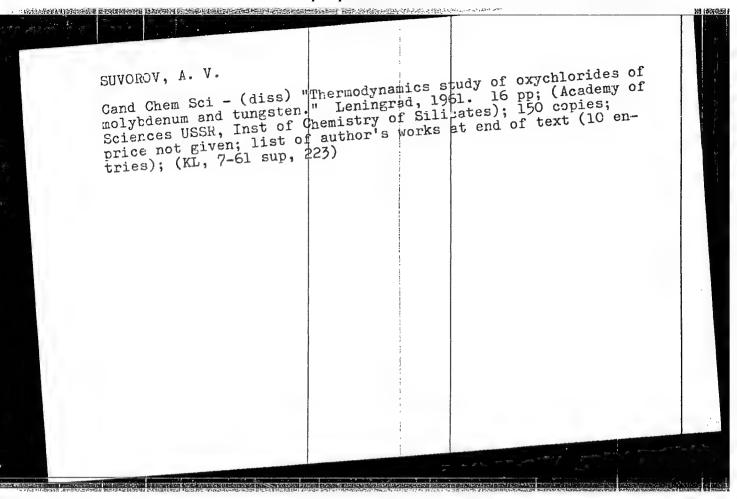
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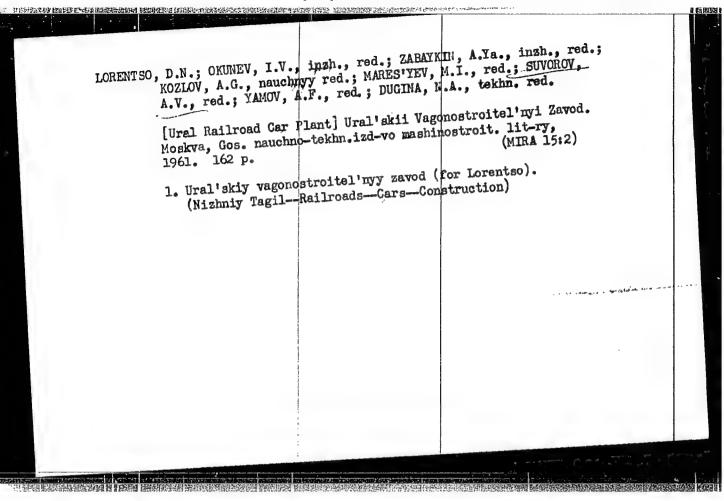
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·			S/078/50/005/008/002/018 B004/B052	
AUTHORS:	Shchukarev, S. A. Suvorov, A. V., Bayev, A. K.		Vasil'kova, I. V., Sharupin, B. N.,	
TITLE:	The Thermodynamic of Tungsten and M	Properties of Ch.	lorides and Oxychlorides	
of Mo~ and W investigated:	pp. 1650-1654 lying various methom ts, formation entrochlorides, published WC16, MoCl5, WOCl4	ods, the authors versions, and formation of the contract of th	vanted to check the on enthalpies in the case of the case obtained by a successive	<u>/</u>
reaction betw	een MoO and Cl);	Mocl ₃ , Wcl ₄ , Wcl ₅	O ₂ Cl ₂ (obtained by the (by the reduction of obtained by dispropor-	
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\$/078/60/005/008/002/018 The Thermodynamic Properties of Chlorides B004/B052 and Oxychlorides of Tungsten and Molybdenum tion of MoCl3 and WCl4, and MoOCl4). Two calorimetric methods were applied: 1) Comparison of the heat of solution of the investigated substance to the heat of solution of a substance whose heat of formation is known (Table 1). 2) Combustion in oxygen (Table 2). Furthermore, the vaporization, depolymerization, dissociation, and disproportionation processes taking place in a state of equilibrium, were spectrophotometrically and tensimetrically investigated (Tables 3, 4). The enthalpies of formation, and partly also the standard entropies of formation were calculated from the experimental data. In Tables 5 (Mo compounds) and 6 (W compounds) they are compared with the data given in Ref. 2 which were adopted almost unchanged by the US National Bureau of Standards (Ref. 9). The values determined by the authors are 1.4 = 1.7 times as high. Therefore, the dependence of the free energy of formation of temperature is different altogether. This is graphically represented in Fig. 1 (comparison of determined ΔH^0 and ΔF^0 for tungsten compounds, with the data of the National Bureau of Standards), and Fig. 2 (comparison of the AH form of Cr, Mo, and W chlorides, with the data of the National Bureau of Standards). There are 2 figures, 6 tables, and 9 references: 6 Soviet, 2 US, and 1 Dutch. Card 2/3

	amic Properties of des of Tungsten an		S/078/60/005/008/002/018 B004/B052	
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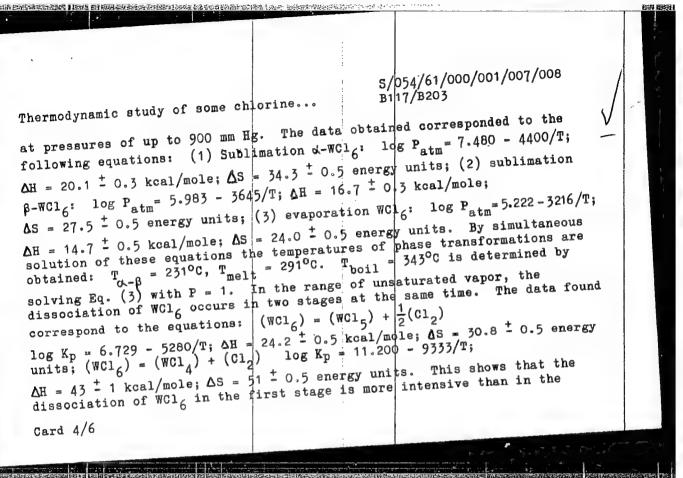


s/054/61/000/001/007/008 B|17/B203 Shchukarev, S. A., Suvorov, A. V. AUTHORS: Thermodynamic study of some chlorine derivatives of molybdenum and tungsten TITLE: Vestnik Leningradskogo universiteta. Seriya fiziki i PERIODICAL: khimii, no. 1, 1961. 87-99 TEXT: The authors give results of thermodynamic studies of compounds of two isotope groups: MoCl₅-MoOCl₄-MoO₂Cl₂-Moo₃ and WC16-WOC14-WO2C12-WO3. They used their membrane- and opticotensimetric methods (Ref. 23: G. I. Novikov, A. V. Suvorov, "Zav. lab." no. 6, 750, 1959; Ref. 24: S. A. Shchukarev, G. I. Novikov, A. V. Suvorov, ZhNKh. 1, 2433, 1956). The two apparatus used were improved. For instance, temperature was measured with the aid of a thermocolumn consisting of thermocouples with an accuracy of 10.5%. By means of an 308-01 three thermocouples with an accuracy of to keep the temperature (EPV-01) electron potentiometer it was possible to keep the temperature constant for a long period (1-20 hr) with the same accuracy. Pressure Card 1/6

Thermodynamic study of some chlorine. Bi17/B203 was measured in the range of 1-800 mm Hg with an meter with an accuracy of ±0.1 mm Hg, and in the with a U-shaped mercury manometer with an accuracy of ±1 mm Hg. With the use of an \$\Phi\forall \cdot 19-M \rightarrow \text{(FEU-19-M)} electron photomultiplier together with a voltage divider it was possible to measureable optical densities. With the use of plane-parallel, all-soldered optical cuvettes, the optical density was measured with the same accuracy as the vapor pressure (about 0.5-1%). The pressure of saturated and unsaturated MoCl5 vapor was studied. Two series of measurements were made at a chlorine pressure of about 300 and 400 mm Hg in a temperature range of 80°-300°C. The data averaged by the method of least squares
sublimation [MoCl ₅] _{solid} log P _{atm} 9.150-4750/T 21.7-0.5 43.5 ± 0.5 evaporation MoCl ₅ liqu log P _{atm} 5.536-3036/T 13.9±0.5 25.3 ± 0.5 By simultaneous solution of these equations, the melting point 201°C and the boiling point 276.5°C are obtained. The values determined from the
dissociation equation $(MoCl_5)_{gas} = (McCl_4)_{gas} + \frac{1}{2} (Cl_2)_{gas}$ for the equi-

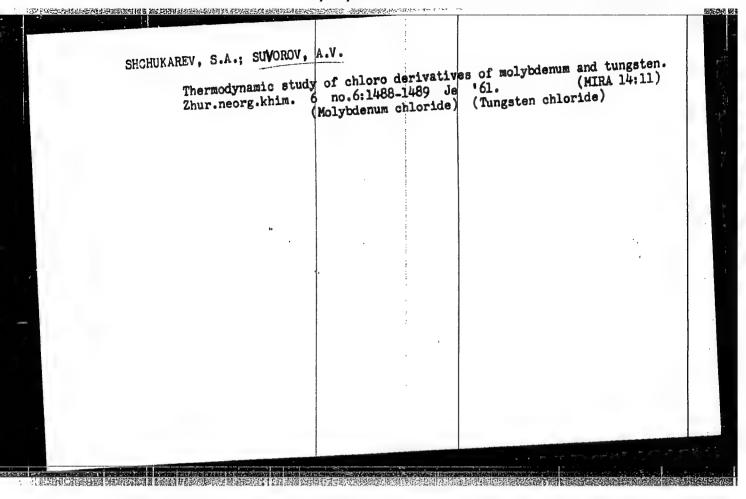
Thermodynamic study of some chlorine... S/054/61/000/001/007/008 B117/B203

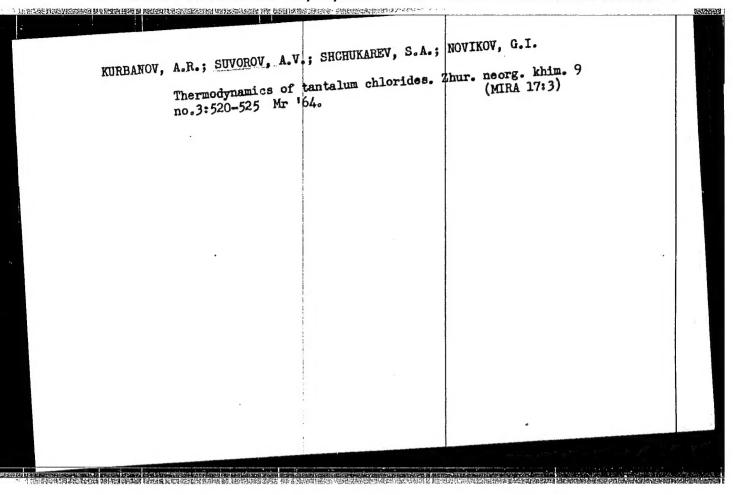
librium constant K_p correspond to the equation $\log K_p = 3.201 - 2779/T$; to the evaporation process of liquid Mo0Cl₄ correspond to the equation: or liquid Mo0Cl₄ correspond to the equation: for the evaporation process of liquid Mo0Cl₄ correspond to the equation: $\Delta S = 11.7 \pm 0.5$ kcal/mole; $\Delta S = 21.9 \pm 0.5$ energy log $P_{atm} = 4.783 - 2552/T$; $\Delta H = 11.7 \pm 0.5$ kcal/mole; $\Delta S = 21.9 \pm 0.5$ energy log $\Delta S = 21.9 \pm 0.5$

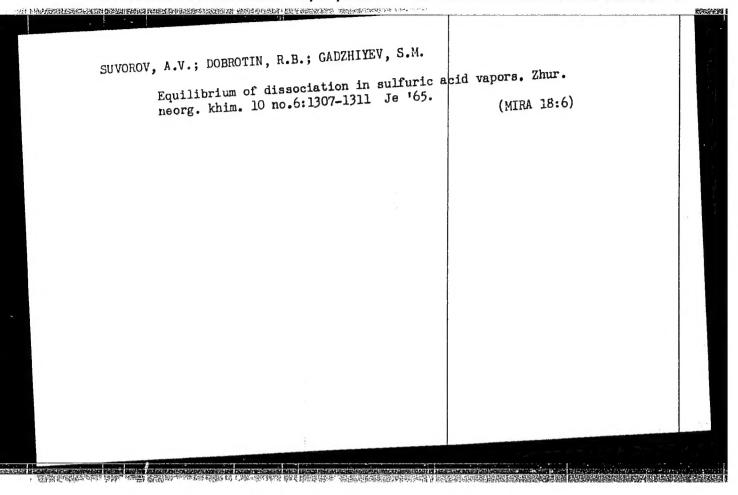


The	s/054/61/000/001/007/008 rmodynamic study of some chlorine B117/B203	
8ec 134	ond stage. The pressure of saturated WOCl ₄ vapor was measured up to 0 mm Hg. The data obtained correspond to the equations: Sublimation 1 ₄ : log P _{atm} = 9.743 - 4789/T; AH = 21.7 - 0.5 kcal/mole;	
ΔS	= 44.2 ± 0.5 energy units; evaporation WOCl ₄ ; log P _{atm} = $4.564 - 2250/T$;	
ATT	= 11 $\stackrel{+}{-}$ 1 kcal/mole; ΔS = 22 $\stackrel{+}{-}$ 1 energy units: hence, the melting point 211°C and the boiling point of 227°C are obtained. For the dispropernation of WOCl ₄ according to the scheme 2(WOCl ₄) = (WO ₂ Cl ₂) + (WCl ₆),	
+ 4-	following thermodynamic characteristics were determined in first roximation: $log K_p = 1.41 - 2400/T$; $\Delta H = 11 + 1 kcal/mole$;	
Δs	= 6 - 1 energy units. In the system WO2Cl2, the simultaneous course	
of	three independent processes is assumed: (I) \[\wo_2 \cap Cl_2 \] = (\wo_2 \cap Cl_2);	
(1)) $2[WO_2Cl_2] = (WOCl_4) + [WO_3]$, and (III) $3[WO_2Cl_2] = (WCl_6) + 2[WO_3]$.	
The	partial pressures obtained and the respective equilibrium constants respond to the equations (pressure in atm): (1) logPwo2Cl2 = 6.666 - 5043/T;	
Car	d 5/6	-

Thermodynamic study of some characteristics of these equations shows that thigher temperatures, WOCL vapor equals the pressure of 400° - 450°C, the dissociation of vapor about A. V. Tarasov assisted in the D. N. Tarasenkov and A. V. Kand 26 references: 15 Sovies	1 1 energy 2 1 energy WO2Cl2 previous prevails. WO2Cl2 vapor processes move WO2Cl2 becomes investigation	units; units; units. ails in At 3720 . At t ust obvomes even	The simultaneous solution vapors only below 224°C. C, the pressure of WCl6 emperatures above riously not be neglected. worn more complicated. WOCl4 and WO2Cl2.	
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